"APPROVED FOR RELEASE: 06/19/2000

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To Allenda Maria

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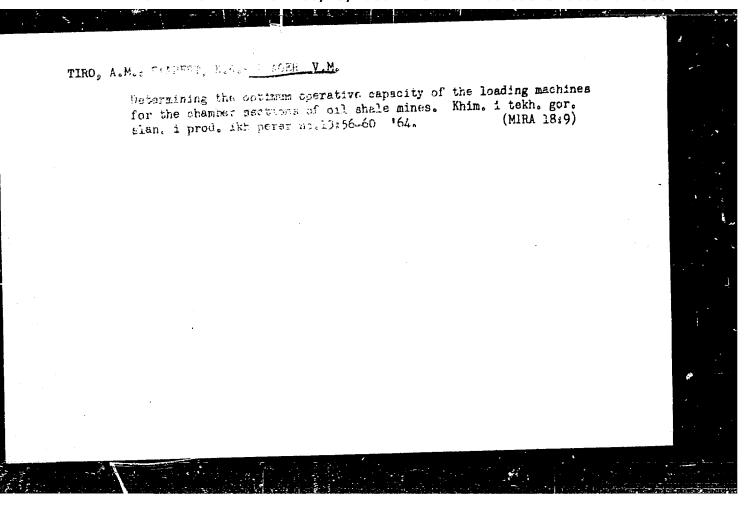
TAT 5

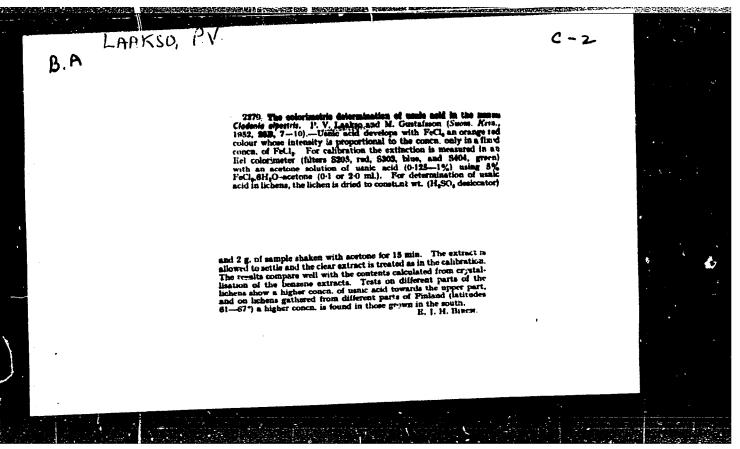
LAABE, I. K.

Laabe, I. K. (Leningrad). Room-temperature Thermos.ats p. 182

Interchangeability, Accuracy and Measuring Methors in Machine Building, Moscov, Mashgiz, 1958, 221 pp. (Sbornik Nauchno-tekn. olshch. mashinostroitel'roy promyshlennosti, Leningradskoye obdast pravleniya, km. 47).

This collection of articles deals with the copies discussed at the 3rd Leningrad Sci. and Engineering Conference on Interchangeability, accuracy and Inspection Methods in Machine-building and Instrument-making, held 18-22 Mar 1957.





LAAN, I.; ROIGAS, E.; TOMAS, J.

On the action of dibazol, pentoxyl, and dimedral on the streptomycin sensitivity of <a href="https://www.ncbacterium\_tuberculosis">https://www.ncbacterium\_tuberculosis</a>. p. 132.

TOIMETISED. BIOLOGGILINE SEPRIA. IZVESTIIA. SERIIA BICLOGICHESKAIA. (Eesti NSV Teaduste Akadeemia) Tallinn, Estonia. Vol. 8, no. 3, 1959.

Monthly list of East European Accessions (EEIA) Vol. 9, no. 1, Jan 1960.

Uncl.

TERAS, J,red.; RÖIGAS, E., red.; LAAN, I., red.; KLENSKIY, K., red.

[Trichomoniasis of the urogenital tract; a collection of articles] Trikhomonoz urogenital nogo trakta; sbornik statei. Tallin, AN Estonskoi SSR, 1963. 213 p. (EIRA 17:6)

TERAS, J.; LAAN, I.; ROIGAS, E.

On the venereal nature of genito-urinary trichomoniasis. J. hyg. epidem. 7 no.2:240-251 '63.

1. Institute of Experimental and Clinical Medicine of the Academy of Sciences of the Estonian S.S.R., Department of Protozoology and Microbiology, Tallinn.

(TRICHOMONAS INFECTIONS) (URINARY TRACT INFECTIONS)

(EPIDEMIOLOGY) (COITUS) (VENEREAL DISEASES)

LAAN, I.A.

Oultivation of Trichomonas vaginalis in a dense medium. Lab. delo 6 no.4:41-43 J1-Ag '60. (MIRA 13:12)

1. Sektor protozoologii (zav. Yp.Kh.Teras) Instituta eksperimental nqy i klinicheskoy meditsiny AN Estonskoy SSR (dir. P.A. Bogovskiy), (TRICHOMONAS) (BACTERIOLOGY—CULTURES AND CULTURE MEDIA)

TERAS, Yu.Kh.[Teras, J.], red.; LAAN, I.A., red.; PIKHL, Kh.O.
[Pihl, H.], red.; TALIMEYSTER, E.T. [Tallmedster, E.], red.;
YANNUS, L.E.[Jannus, L.], red.; KLENSKIY, K.S., nauchnyy red.;
SEVAST'YANOV, A., red.; TOOMSALU, E., tekhn. red.

[Investigations in microbiology] Issledovaniia po mikrobiologii.
Tallinn. Vol.1. 1961. 221 p. (MIRA 15:6)

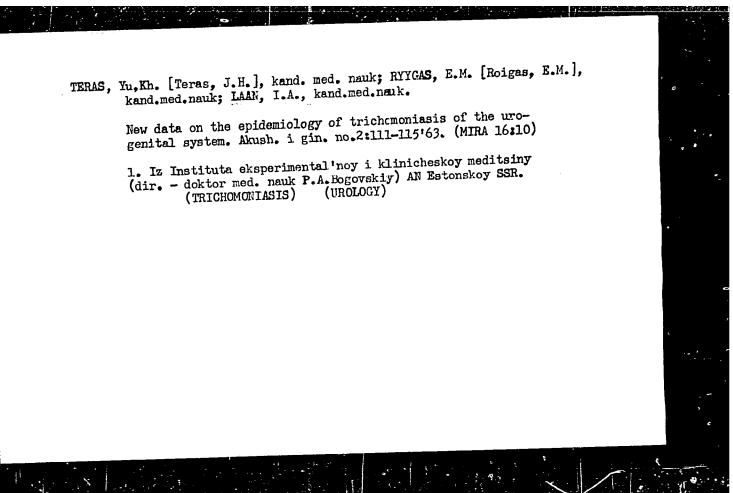
1. Eesti NSV Teaduste Akadeemia. Eksperimentaalse ja Kliinilise
Meditsiini Instituut. (MEDICAL MICHOBIOLOGY)

TERAS, Yu. Kh., kand. med. nauk; LAAN, I. A.; RYYGAS, E. M. [Roigas, E.]

Action of directrol on the growth and streptomycin sensitivity of Mycobacterium tuberculosis. Probl. tub. 40 no.4:84-87 '62. (MIRA 15:6)

l. Iz sektora protozoologii i mikrobiologii (zav. - kandidat meditsinskikh nauk Yu. Kh. Teras) Instituta eksperimental'noy i klinicheskoy meditsiny AN Estonskoy SSR (dir. - kandidat meditsinskikh nauk P. A. Bogovskiy)

(MYCOBACTERIUM TUBERCULOSIS) (DIMEDROL)
(STREPTOMYCIN)



TERAS, Yu.Kh. [Teras.J.]; RYYGAS, E.M. [Roigas, E.]; LAAN, I.A. [Laen,I.];

Significance of the culture method and repeated examinations in the diagnosis of trichomoniasis of the genttourinary tract. Med. paraz.i paraz. bol. 32 no.5:586-588 S-0!63 (MIRA 16:12)

1. Iz otdela protozoologii i mikrobiologii (zav. - kand. med. nauk Yu.Kh. Teras) Instituta ekaperimental'noy i klinicheskoy meditsiny (dir. P.A. Bogovskiy) AN Estonskoy SSR.

TERMS, Yu.Kh. [TERMS, J.]; MYROLD, M.M. [Brigas, F.]; kent. mod. nauk

LAAN, I.A., kand. med. neuk

Organization of measures to control triche modernia of the surgenital tract. Vest. derm. i von. 37 no.9:70-72 S '63.

(Mice. 17:6)

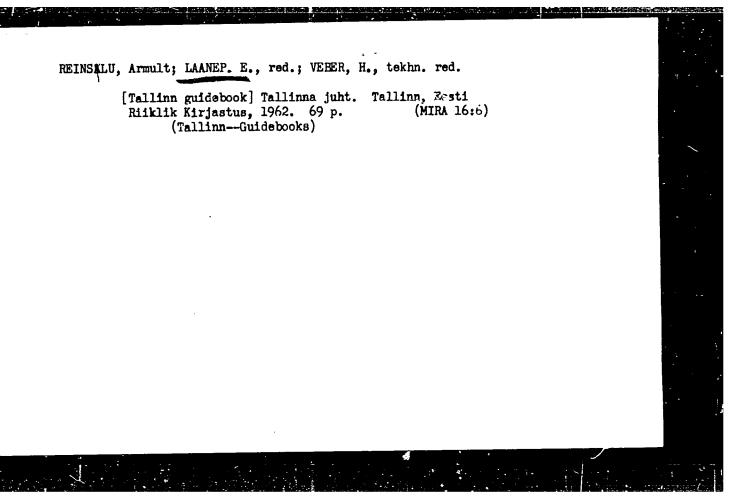
1. Sektor protozoologii i mikrobiologii nav. - kand. med. nauk
Yu.Kh.Terms) Instituta exceptionntillnoy i klinicheskoy meditsiny
(dir. - prof. F.A. Bogovskiy) (N Estenskiy NSM.

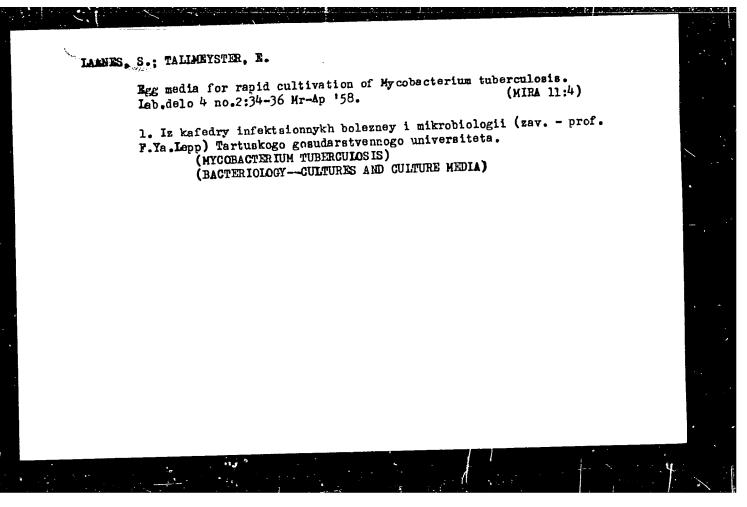
TEMES, Yu.Kh. [TERRS, J.]; RYYGAS, E.M. [Beigns, F.]; kand. med. nauk
LARN, I.A., kend. med. nauk

Organization of measures to control trichemoniasis of the
urogenital tract. Vest. derm. i von. 37 no.9:70-72 S '63.

(MMA 17:6)

1. Sektor protozoologii i mikrobiologii zer. - kani. med. nauk
Yu.Kh.Teras) Instituta eksperimontal nay i klinicheskoy meditsiny
(dir. - prof. P.A. Bogovskiy) fM Estonskey SSR.





LAANES, S.Kh. [Leanes, S.H.], kend.med.nauk, TYURI, E.I. [Turi, E.I.]

Early changes in organs of the guinea pig in experimental tuberculosis [with summary in French]. Probl.tub. 36 no.6:94-97 '58 (MRR 1110)

1. Iz kafedry infektsionnykh bolezney i dermatologii (zav. - doktor med.nauk, zaslyzhennyy deystel' nauki Estonskoy SSR prof. F.Ya. Lepp)

Tartuskogo gosuderstvennogo universiteta.

(TUBERCULOSIS, exper.

early changes in organs of guinea pigs (Rus))

Development of experimental tuberculosis following inoculation of guinea pigs in the testicle. Froll.tub. no.5:94.96 '61.

(MIRA 15:1)

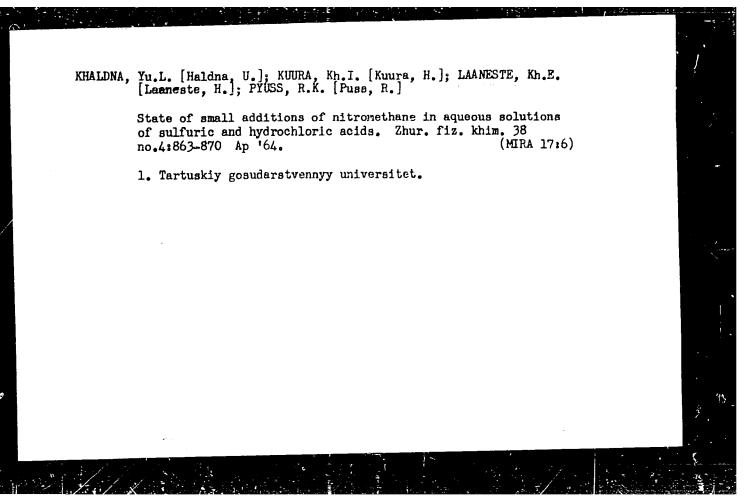
1. Iz kafedry infektsionnykh bolezney i dermatologii (zav. —
doutor med.neuk, zasluzhennyy deyatel' nauki Estonskoy SSR
prof. F.Ya. Lenn) Tartuskogo gosudarstvennogo universiteta.

(TUBERCULOSIS)

TALIMEISTER, Eugen: LAANES, Selma; LENZNER, Akivo; JAAKMEES,
Helga; Färn, A., red.

[Laboratory work in medical microbiology] Leboratoorsed
tööd meditsiinilises mikrobiologias] [by; E.Tallmeister
ja teised. Tallinn, Eesti Riiklik Kirjastus, 1964. 302 p.
[In Estonian]

(MIRA 17:6)



KHALINA, Yu.L. [Haldna, J.]; TUULMETS, A.V.; LAANESTE, Kh.E. [Laaneste, H.];

TIMOTKHEUS, Kh.R. [Timotheus, H.]

Gas liquid chromatographic separation of mixtures of alcohols, ketones, and nitro compounds. Izv. vys. ucheb. zav., khim. i khim. tekh. 7 no.5:865-367 '64.

1. Laboratoriya khimicheskoy kinetiki i kataliza Tartuskogo gosudarstvennogo universiteta.

LAANMAE, L.; LEESMENT, L.

Using biconycin on chicken. p. 289.

SOTSIALISTLIK POLLUMAJANDUS. (Pollumajanduse Ministeerium)
Tallinn, Estonia. Vol. 13, no. 6, June 1958.

Monthly list of East European Accessions (EEAI) Vol. 9, no. 1, Jan. 1960.

Uncl.

LAANMYAE, V. E.: "Pigs of the Estonian lap-eared variety and their use for increasing meat production." Estonian Agricultural Academy. Tartu, 1956.
(Dissertation for the degree of Candidate in Agricultural Sciences.)

USSR/Farm /mimals. Swine

Q-3

Abs Jour: Ref Zhur - Biol., No 19, 1958, No 88096

Author

Loomne V.

Inst

: Estonian Scientific Research Institute of Agriculture and

Melioration

Title

: On the Productive Qualities of Swine of the Estonian Lop-

Eared Breed

Orig Pub : Byul. nauchno-tekhn. inform. Est. n.-i. in-t Zerled. i Melior.,

1957, No 1, 43-49

Abstract: Estonian lop-sared sows display a fairly high fertility (10 piglets in a farrow) and milk yield (70 kg). At You's ing for bacon purposes, the mean daily increment in weight was 567 grams, and the outlay of fodder per kg of increment in weight amounted to 4.8 fodder units. At feeding for futtening, these values encunted to 554 and 6.4, respectively. Average fertility of sows of the Kadre families amounts to 12 piglets in a farrow, and milk yield, 99 kg, while the corresponding values for sows of the Liysu family are 11.5

and 77. -- L.M. Dvinskaya

Card

: 1/1

LAANMAE, V.; VOLTRI, L.

Replacing skimmed milk by hay flour in the feed rations of bacon hogs. p. 21

SOTSILIKTLIK POLLUMJANDUS. POLLUMJANDUS MINISTEERIUM. Tallin, Hungary. No. 1, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11 November 1959.

Uncl.

LAANMAE, V.; VOLTRI, L.

Dry feed mixtures for use in automatic feeders. p. 65

SOTSILKTLIK POLLUMJANDUS. POLLUMJANDUS MINISTERIUM. Tallin, Hungary. No. 1, 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11 November 1959.

Uncl.

LAAMAE, V.; VOLTRI, I.

Preliminary results of a combined test feeding of bacon hogs. p. 312.

GAZ, WCDA I TECHNIKA SANITARNA. (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Sanitarnych, Ogrzewnictwa i Gazownictwa) Warszawa, Poland, Vol. 32, no. 6, June 1958.

Monthly list of East European Accession (EFAI) IC, Vol. 9, no. 2, Feb. 1960

Uncl.

## LAANMAE, V.

Preliminary results of a control experiment in fatteing hogs. p.552 SOTSIALISTLIK POLLUMAJANDUS. Tallinn, Estonia. Vol. 14, no. 12, June 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959 Uncl.

LAANMYAE, Vambola Eduardovich [Loanmäe, V.E.], kand.sel'skokhoz.nsuk;

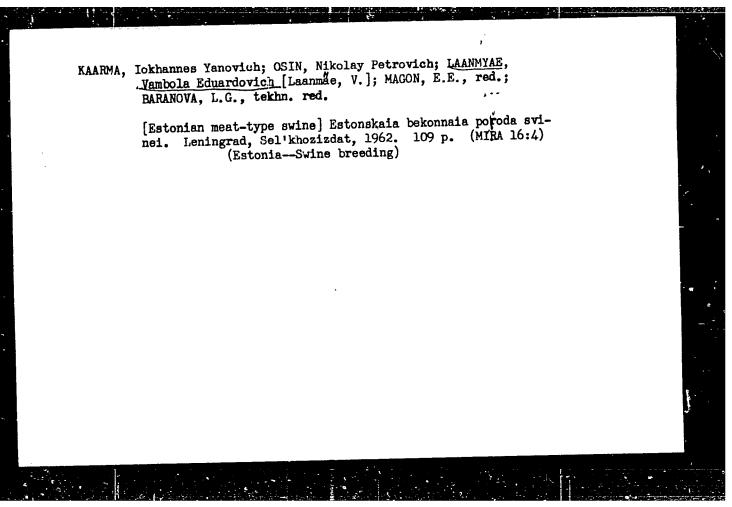
VOL'TRI, Leonikhard Yur'yevich [Voltri, L.J.], nauchnyy sotrudnik;

KATSHEL'SON, S.M., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Fattening meat-type swine; practices of Estonian collective and state farms] Bekonnyi otkorm svinei; iz opyta kolkhozov i sovkhozov Estonskoi SSR. Moskva, Izd-vo "Znanie," 1961. 30 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskich i nauchnykh znanii. Ser.5. Sel'skoe khozisistvo, no.3).

(MIRA 14:2)

(Estonia -- Swine -- Feeding and feeds)

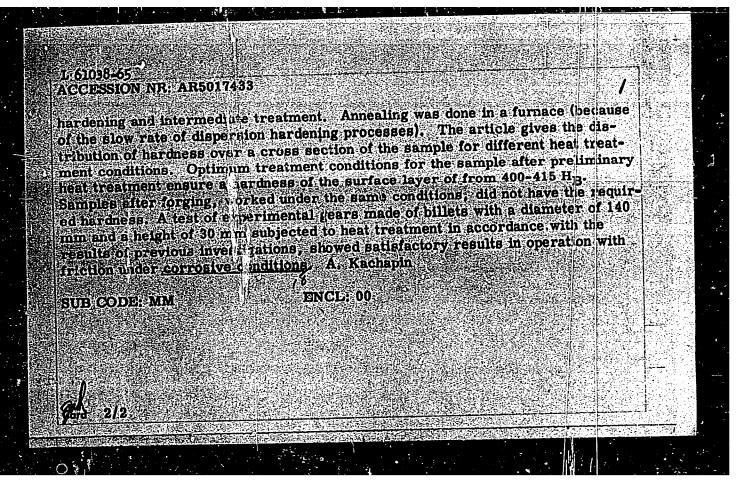


LAANMYAE, V.E. [Laanmae, V.], cand. agric. sc.

Results of swine breeding in the Kekhtnask Experiment Station of planned swine breeding. Zesz probl. post nauk roln no.43:85-91 '63.

1. Head, Department of Swine Breeding of the Estonian Academy of Sciences, Institute of Animal Breeding and Veterinary Medicine, Tartu.

L 61038-65 BKT(m)/E	T(c)/EWA(d)/T/EWP(t)/	'BMP(x)/BMP(b) 1	rim/jd/wb:		
ACCESSION NR: AR5	011433	*UR/0137/65/0	00/008/1102/110	2 49	
Source: R.Z, M	eta kirgiya, Abs. 616	172		48	
AUTHOR Golovin, C	. F., √eyngarten, A.	M. Laanson,	G. A.; Smirnov,	V. I.	
TITLE: Use of induct	ion heating for surface				
steel CITED SOURCE: Tr. -66-73	<sup>≁</sup> Vses, n1. in-ta to	kov vysokoy cha	stoty, vyp. 5, 1:	364,	
TOPIC TAGS: induct	tion hardening, stain , metal <u>friction,</u> /OK	iess steel, metal h17N7Yu <u>stainles</u>	hardening, hardes steel	dness,	
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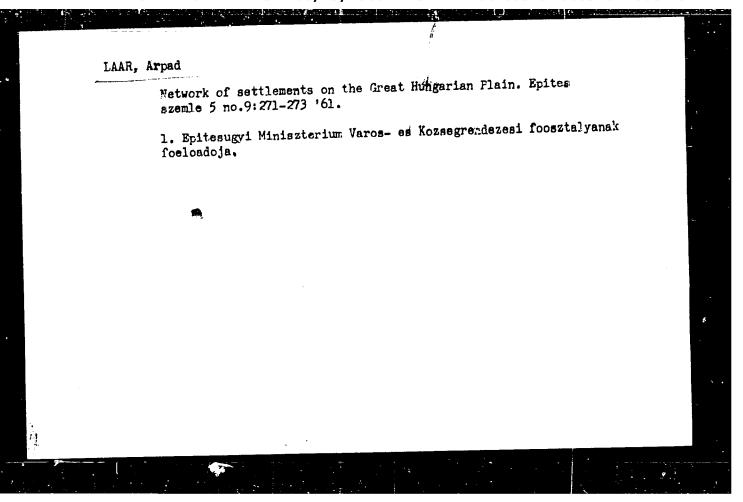
## IAANSOO, H.

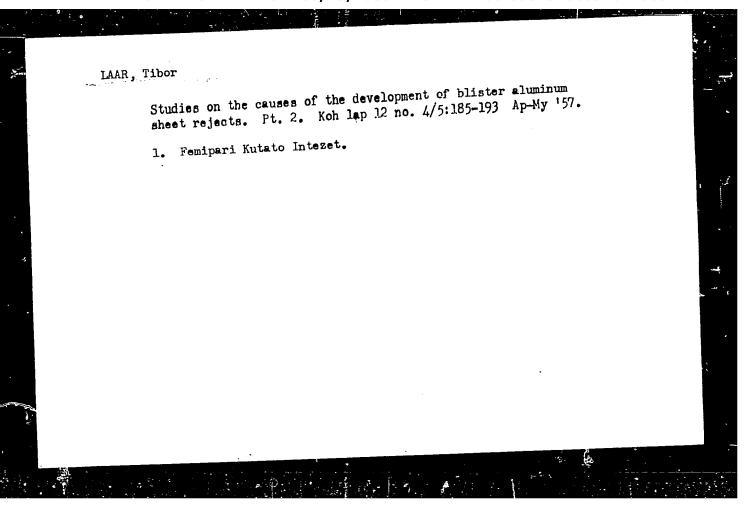
Bee breeding at Kuusalu. p. 326

GAZ, WODA I TECHNIKA SANITARNA (Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Sanitarnych, Ogrzewnictwa i Gazownictwa) Warszawa, Poland, Vol. 32, no. 6, June 1958.

Monthly list of East European Accession (EEAI) IC, Vol. 9, no. 2, Feb. 1960

Uncl.





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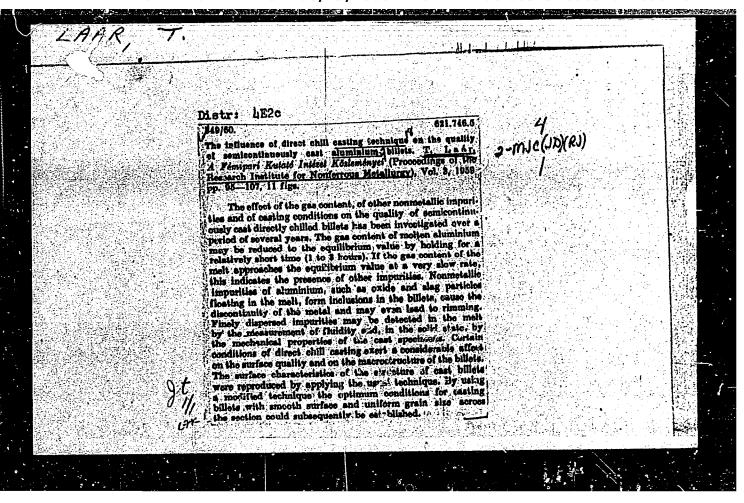
#### LAAR, T.

The effect of some conditions in semicontinuous casting on the quality of aluminum blocks. It. 2. p. 402.

KCHASZATI ICECK. (Hagyar Banyeszati es Nohaszati Egyesület) Sudapest, eund ry. Fol. 15, no. 9, wept. 1950.

bonthly list of Part surgican accessions (BSAT) IC, vol. 9. no. 1, Jan. 1960

Uncl.



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S/137/62/000/005/027/150 &006/A101

5-2100

AUTHORS:

Domony, A., Laár, T.

TITLE:

Joint effect of titanium and boron upon the properties of an oxide film formed on an aluminum surface, and upon aluminum crystalliza-

tion

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 5, 1962, 14, abstract 382 ("Kohász. lapok", 1961, v. 94, no. 11, 505-507, Hungarian; Russian,

German, English summaries)

TEXT: Some admixtures contained in Al, affect considerably its properties. Ti impairs electric conductivity, but promotes grain refining. B has a low effect on electric conductivity but promotes also the production of a fine crystalline structure. B impairs the properties of a surface oxide film. In the case of the joint presence of Ti and B, Al properties are determined by the predominance of one of the aforementioned elements in free state. To improve Al structure, 0.01 - 0.032% Ti should be added.

[Abstracter's note: Complete translation]

B. Gulyanitskiy

Card 1/1

3/137/62/000/012/011/085 A006, A101

**AUTHORS:** 

Vassel, K. R., Laar, T., Csak, J.

TITLE:

Investigating the causes of crack formation in casting aluminum-zinc-magnesium-copper alloys and methods of

eliminating same

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 12, 1962, 20, abstract 12G144 ("Kohasz. lapok", 1961, v. 94, no. 5, "OntBde" v. 12, no. 5, 193 - 194, Hungarian)

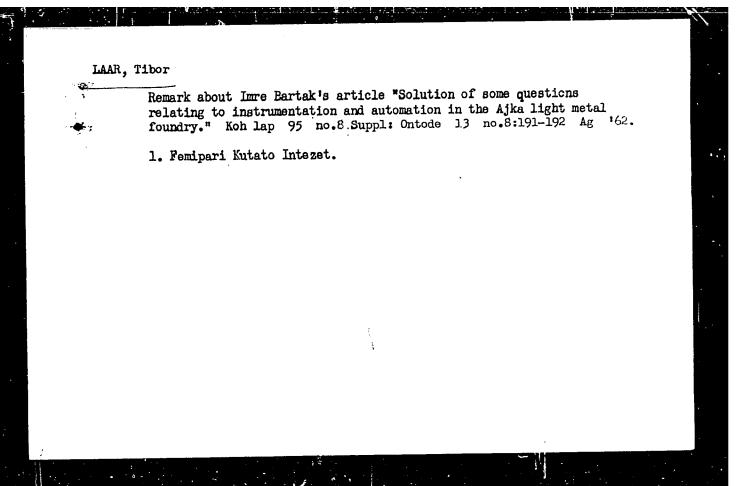
The basic cause of crack formation in alloys containing (in%) 2n 5.5 - 7, Mg 2.4 - 3.6, Cu 1.8 - 2.3, the rest Al, is the non-uniform distribution of alloying metals in the castings and the jump-like changes of linear dimensions during their heating or cooling, which causes high internal stresses. To obtain dense ingots, the authors recommend low casting temperature, uniform metal distribution and cooling, assuring the production of a fine-crystalline structure.

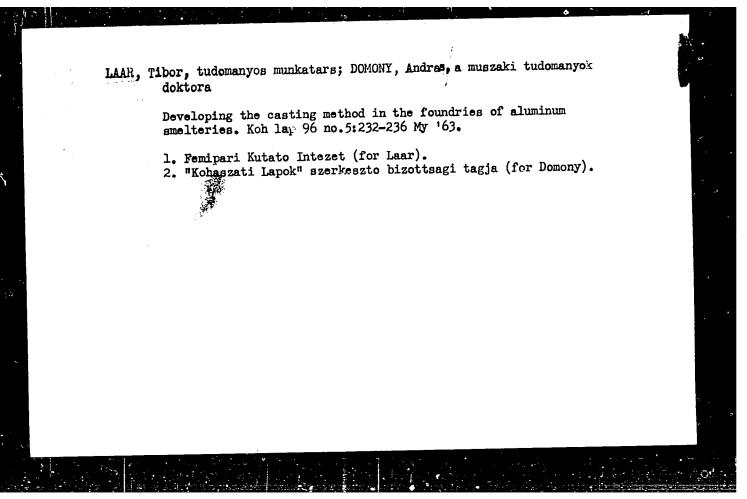
A. Tseydler

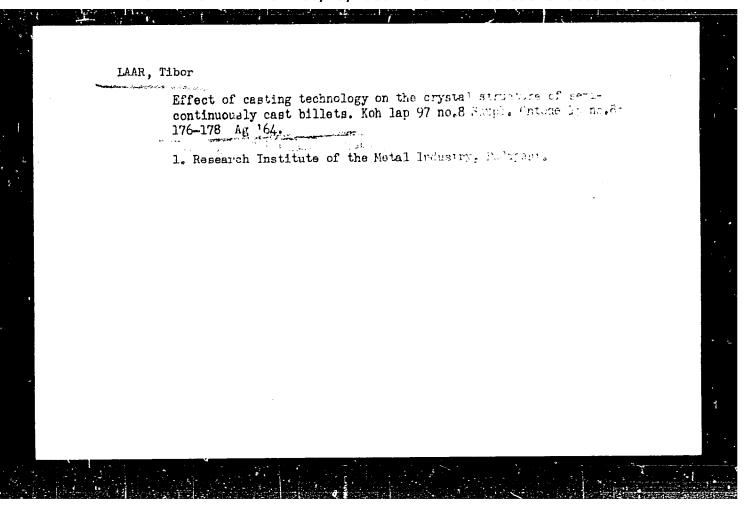
[Abstracter's note: Complete translation]

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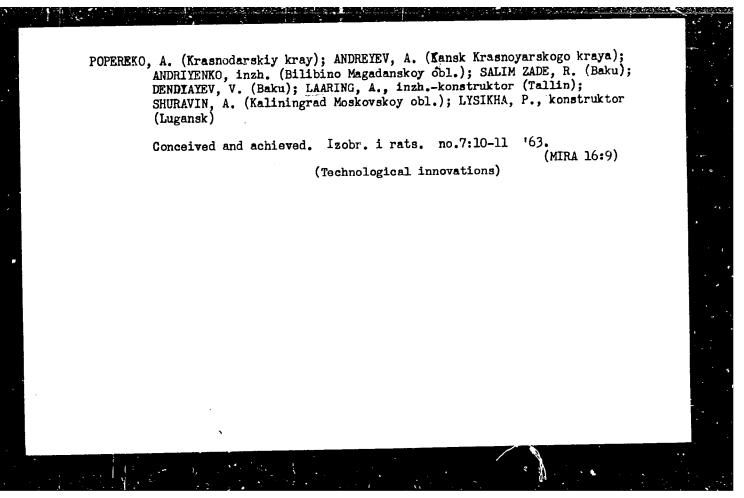
CIA-RDP86-00513R000928410001-6" **APPROVED FOR RELEASE: 06/19/2000** 







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UTHOR: Laar, Tibor	JH/JD	
RG: Research Institute	for the Metal Industry (Femipari Kutato Intez	(et)
TTLE: Determination of ith the aid of technolo	the production process level in aluminum-ingogical parameters	ot foundries  37
OURCE: Kohaszati lapok	, v. 98, no. 11, 1965, 502-506	$\mathcal{B}'$
OPIC TAGS: industrial	production, metallurgy	
he production processes	derived to characterize the capacity factors in ingot foundries, the intensity of the pro- fficiency of the production processes, the pro-	-
ivity of the production	processes, the material yield of the product; productive days in ingot foundries, and (on	ion
asis of the above equat pplications of these eq	ions) the overall production process level. The uations were discussed. The computation technic examples. Orig. art. has: 2 figures, 17 for	he j
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	0916 230	5 <del>2</del>



USSR / Forest Science. Forest Cultures.

K-4

Abs Jour

: Ref. Zhur - Biologiya, No 17, 1958, No. 77526

Author

: Leas, E. : AS Estonian SSR

Inst Title

: On the Results of Cultivation of Larchs in the Estonian SSR

Orig Pub

: Loodusuurijate Seltsi aastaraamat Eesti NSV Teaduste Akad. juures, Yezhegodnik O-va yestestvoispyt. pri AN EstSSR,

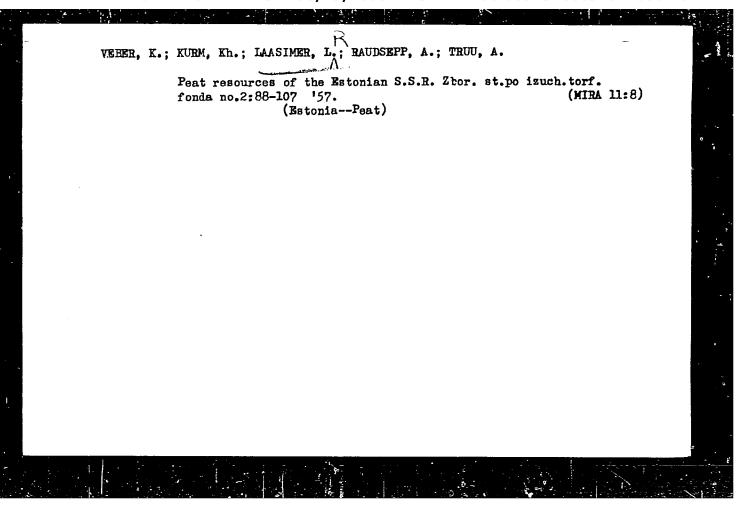
1955, 48, 352-364

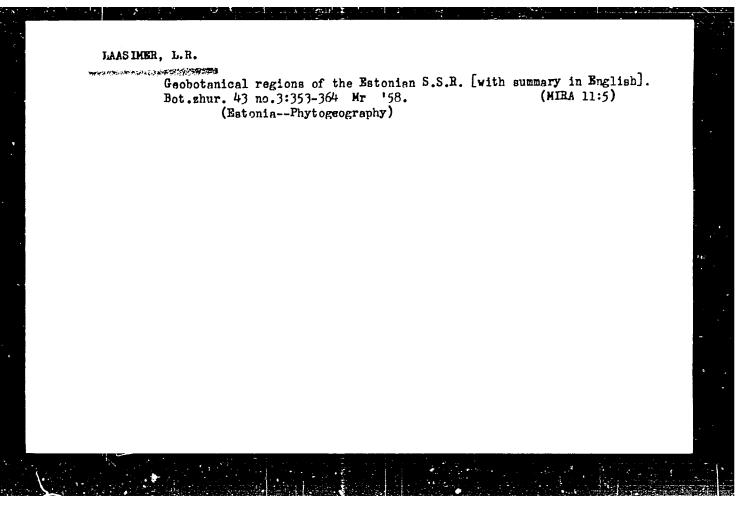
Abstract

: In the forest of the Estonian SSR, Siberian, European, Kurile, and Japanese larch grow; the greatest area is occupied by the first two types. Since 1948, the area of young larch plantings has grown sharply. Siberian and European larches, under favorable conditions, exceed local spruce and pine by 25-50% in productivity. Kurile larch deserves great attention. Recommendations are cited for gathering and treatment of larch seeds for sowing in the

conditions of the ESSR. -- L. V. Nesmelov.

Card 1/1





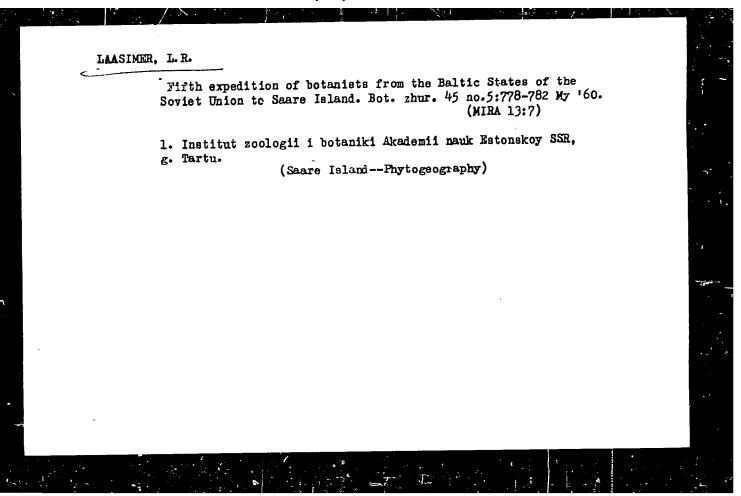
LAASIMER,	L.	R	
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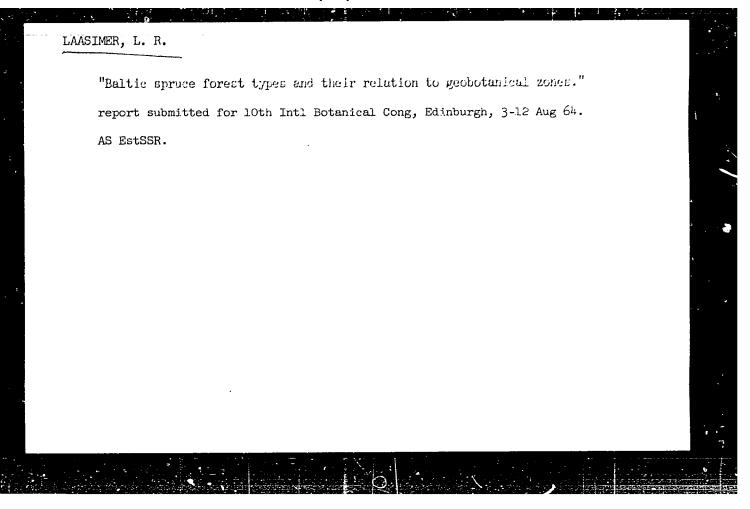
"The Position of Estonia in Phytogeographical and Geobotanical Partitions of North Europe."

Paper submitted for the Int'l Botanical Congress, Montreal, Canada, 19-29 Aug 1959.

[ TARTU, ESTONIAN 55 P.]

CIA-RDP86-00513R000928410001-6" APPROVED FOR RELEASE: 06/19/2000





KUUSK, V., red., LAASIMER, L., red.; TRASS, Kh.[Trass, H.], red.; SEVAST YANOV, A., red.

[Study of the vegetation of Saaremaa Island] Izuchenie rastitel nosti ostrova Saaremaa. Tartu, 1964. 285 p.

(MIRA 18:5)

1. Eesti NSV Tesduste Akadeemia. Zoologia ja Botaanika Instituut.

MAAVARA, Vambola, kand. biol. rauk, starshiy nauchnyy sotr.; MERIHEIN, Arnold; PARMAS, Helimit, inzh.-patolog lesnogo khoz.; PARLASTO, Erast, kand. biol. nauk; HAEERAN, H., akademik, retsenzent; KULARI, E., prof., retsenzent; EUISTE, L., kand. biol. nauk. retsenzent; LING, H., kand. biol. nauk, retsenzent; ROIGAS, P.. kand. sel'khoz. nau! retsenzent; LAATS, A., prepodavatel', retsenzent; ORA, V., nauchnyy sotr., retsenzent.: RANG, H., nauchnyy sotr., retsenzent; LALL, E., red.; VAHTRE, I., tekhn. red.

> [Forest protection] Metsakaitse. Koostanud A.Merihein. Tallinn, Eesti riiklik kirjastus, 1961. 732 p.

1. Zoologicheskiy i botanicheskiy institut Akademii nauk Estonskoy SSR (for Maavara). 2. Direktor upravleniya lesnykh kul'tur i melioratsii Ministerstva sel'skogo khozyaystva Estonskoy SSR (for Merihein). 3. Ministerstvo sel'skogo khozyaystva Estonskoy SSR (for Parmas). 4. Nauchnyy sekretar' Zoologicheskogo i botanicheskogo instituta Akademii nauk Estonskoy SSR (for Parmasto). 5. Akademiya nauk Estonskoy SSR (for Haberman, Kumari, Muiste). 6. Akademiya sel'khozyaystvennykh nauk, Estonskeya SSR (for Laats). 7. Veterinarnyy nauchno-issledovatel skiy institut, Estonskeya SSR (for Ore). 8. Institut khimii Akademii nauk Estonskoy SSR (for Rang).

(Estonia-Trees-Diseases and pests)

L-36306-66

ACC NR: AP6014858

SOURCE CODE: UR/0023/65/000/004/0569/0578

19

12

AUTHOR: Laats, M.

ORG: Institute of Thermophysics and Electrophysics, Academy of Sciences, Estonian SSR (Institut termofiziki i elektrofiziki Akademii nauk Estonskoy SSR)

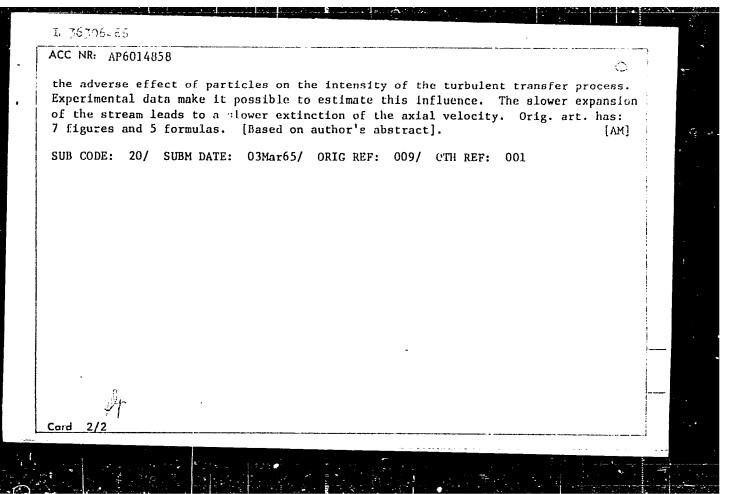
TITLE: E: perimental study of the development of a dust-containing stream

SOURCE: AN EstSSR. Izvestiya. Seriya fiziko-matematicheskikh i tekhnicheskikh nauk, no. 4, 1965, 569-578

TOPIC TAGS: jet stream, jet velocity, axial velocity, jet

ABSTRACT: The results are presented of an experimental investigation of the development of a two-phase stream carrying a lot of small particles. The free, round, two-phase stream within the range of the initial concentration  $\pi_0 = 0$  to l kg/kg is the object of the investigation. The curve of the extinction of the axial velocity of the jet m be generalized; it does not depend on the initial velocity and the diameter of the jet. However, the presence of solid particles affects the process of the decay of the axial velocity. Experimental data prove that the profile of velocities in different cross sections of the stream can be generalized in a system of dimensionless coordinates for the entire range of the initial concentration as well as for the air streams. The influence of the solid particles on the spread of the stream is more important than expected. It can be explained by

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ACC NR: AP6014859

SOURCE CODE: UR/0023/65/000/004/0579/0587

AUTHOR: Laats, M.

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ORG: Institute of Thermophysics and Electrophysics, Academy of Sciences Estonian SSR (Institut termofiziki i elektrofiziki Akademii nauk Estonskoy SSR)

TITLE: Effect of the solid phase on the expansion of a dust-containing stream

(N)

SOURCE: An EstSSR. Izvestiya. Seriya fiziko-matematicheskikh i tekhnicheskikh nauk, no. 4, 1965, 579-587

TOPIC TAGS: solid particle, particle distribution, jet stream, air, streams dispersion composition, turbulent-transfer

ABSTRACT: An analytical solution is presented of the dynamics of air streams containing solid particles. Abramovich's procedure (Abramovich, G. N. Teoriya turbulent-nykh struy, M., 1960) is used for computing various physical factors. It is shown that: 1) the proposed arrangement for computing the effect of the particles on the intensity of the turbulent-transfer process and at the same time on the expansion of the dust-containing stream facilitates the description of the expansion; 2) the relative movement of the phases may be disregarded when computing the movement of the dust-containing stream on the basic region, while computing the flow near the nozzle,

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## LAATS, M.K.

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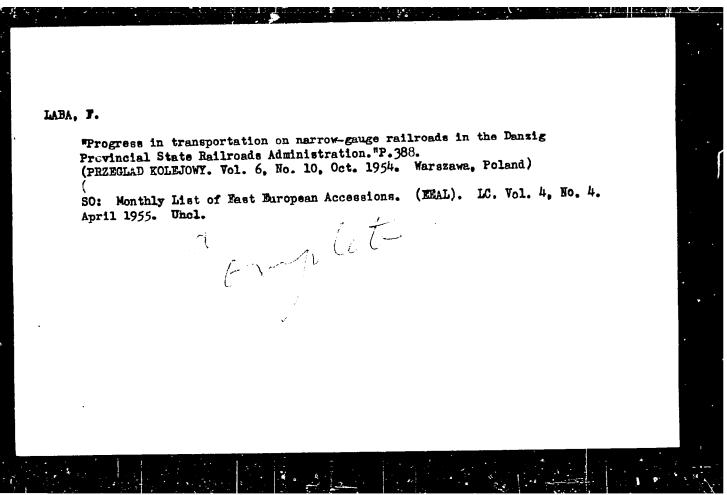
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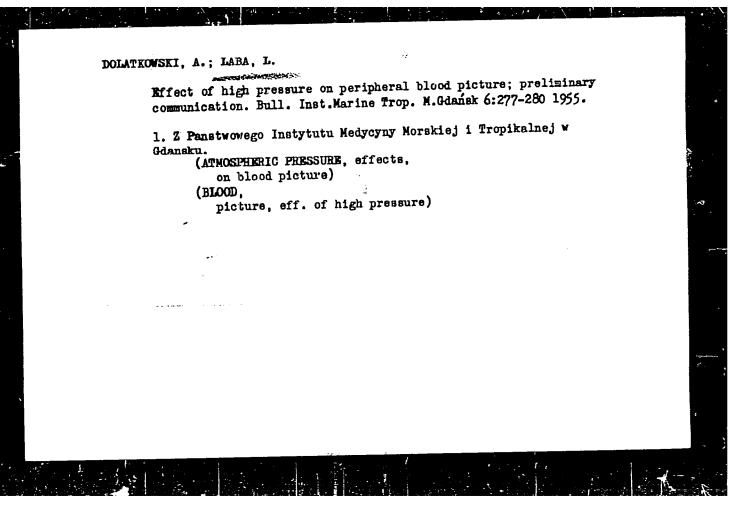
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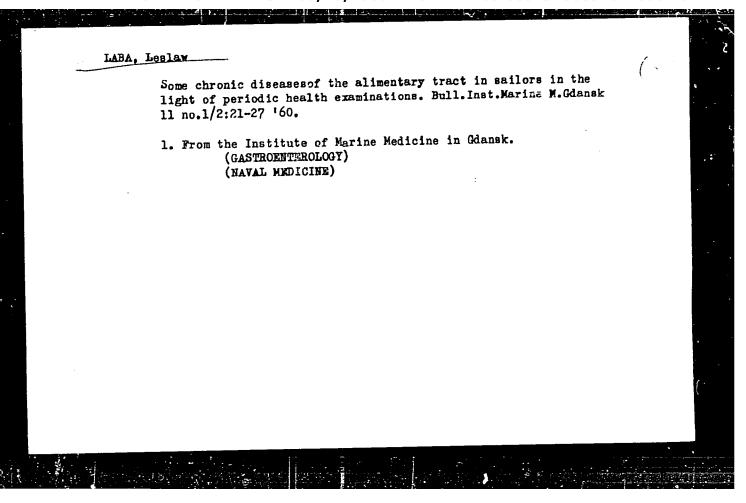
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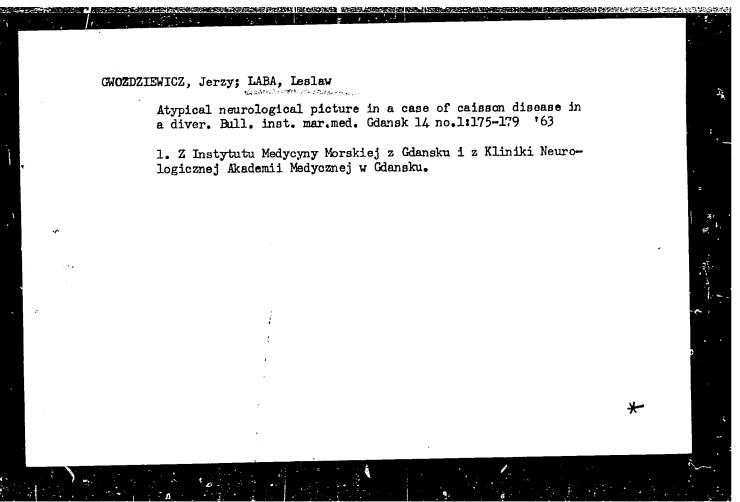


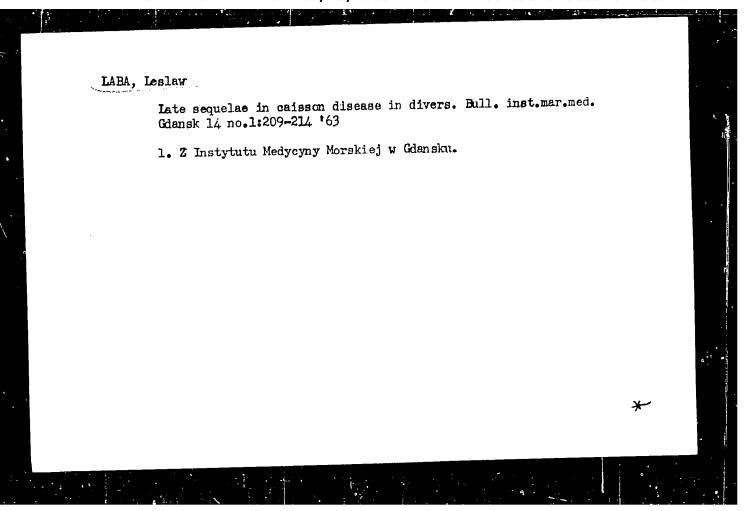
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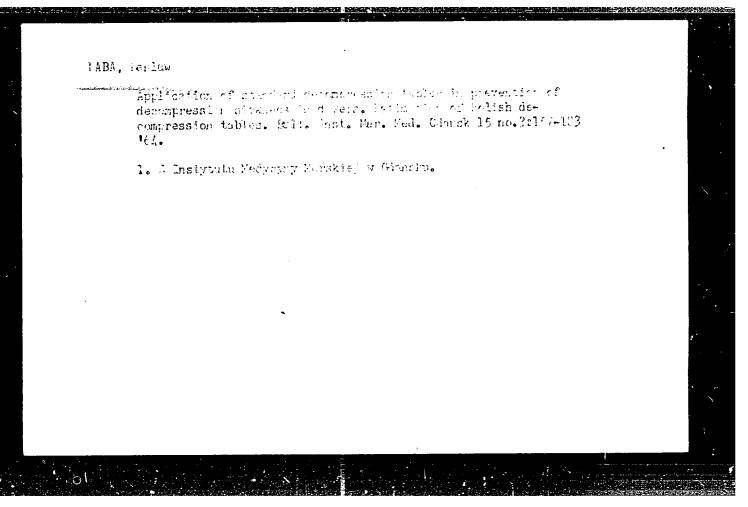
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\$/079/60/030/006/031/033/XX B001/B055

AUTHORS:

Lopushanskaya, A. I., Dombrovskiy, A. V., and Laba, V. I.

TITLE:

Haloarylation of Unsaturated Compounds With Aromatic

Diazo Compounds

XI. Polarographic Analysis and Absorption Spectra of Phenyl- and p-Tolyl Diazonium Chloride Solutions

Containing Copper Chloride

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 6,

pp. 2047-2051

TEXT: Complex compounds of aryl diazonium chlorides with CuCl

have hitherto not been isolated. Basing on Refs. 1 - 8, the authors of the present paper intended to determine the reaction occurring between the above-mentioned compounds. They polarographed and took the absorption spectra of mixtures of CuCl<sub>2</sub> and diazonium salts. According to the authors, the results obtained confirm their assumption of the

to the authors, the results obtained confirm their assumption of the occurrence of such a reaction and the role of copper in haloarylation

Card 1/4

Halbarylation of Unsaturated Compounds With S/079/60/030/006/031/033/XX Aromatic Diazo Compounds B001/B055
XI. Polarographic Analysis and Absorption Spectra of Phenyl- and p-Tolyl Diazonium Chloride Solutions Containing Copper Chloride

resulting therefrom. For this study the authors used dry phenyl diazonium salt (I) and p-tolyl diazonium salt (II) prepared by the method of B. Hirsch (Ref. 9). The polarographic analysis is described in detail. Polarograms are run for solutions of copper chloride, phenyl diazonium chloride, p-tolyl diazonium chloride, and mixtures of these diazonium salts with CuCl<sub>2</sub>. The half-wave potential for copper reduction,

Phenyl diazonium chloride is reduced at the dropping mercury electrode and gives a polarogram (shown in Fig. 1) with a peak not suppressed by gelatin. Reduction starts at -0.57 V. The current then increases, and after reaching the peak, a distinctly marked horizontal line corresponding to the diffusion current is seen in the polarogram. p-tolyl diazonium chloride is reduced at more negative potentials owing to the presence of a methyl group (Fig. 2). Reduction sets in at a potential of -0.97 V. Here, the presence of the peak makes an exact determination of the half-wave potential difficult. The polarographic curves obtained for

Card 2/4

Haloarylation of Unsaturated Compounds With Aromatic Diazo Compounds

S/079/60/030/006/031/033/XX B001/B055

XI. Polarcgraphic Analysis and Absorption Spectra of Phenyl- and p-Tolyl Diazonium Chloride Solutions Containing Copper Chloride

mixtures of  $\operatorname{CuCl}_2$  + (I) and  $\operatorname{CuCl}_2$  + (II) are shown in Figs. 3 and 5. The shape of the two curves is similar. The order of mixing does not affect the curves. The wave characteristic of the  $\operatorname{Cu}^{++}$ ion is therefore not present in the polarograms of the two mixtures. The copper ions evidently form a complex that is not reduced by the potentials applied. This interpretation of the polarograms of the mixtures of solutions of  $\operatorname{CuCl}_2$  and  $\operatorname{ArN}_2\operatorname{Cl}$  ( $\operatorname{Ar} = \operatorname{C}_6\operatorname{H}_5$  or  $\operatorname{p} - \operatorname{CH}_3\operatorname{C}_6\operatorname{H}_4$ ) confirms the assumption that  $\operatorname{SuCl}_2$  forms a complex with aryl diazonium of the following type

$$2\operatorname{ArN}_{2}\operatorname{Cl} + \operatorname{Cucl}_{2} \longrightarrow \left[\operatorname{ArN}_{2}\right]_{2}\operatorname{Cucl}_{4} \longrightarrow \left[\operatorname{ArN}_{2}\right]^{+} + \operatorname{Cucl}_{4}^{-} .$$
The avaluation of the state of the stat

The evaluation of the absorption spectra of the above mixtures of solutions and their components furnishes further proof that diazonium salts form complexes with CuCl<sub>2</sub> (Figs. 5 and 6). The authors

Card 3/4

Halparylation of Unsaturated

Compounds With Aromatic Diazo Compounds

XI. Polarographic Analysis and Absorption Spectra of Phenyl- and
p Tolyl Diazonium Chloride Solutions Containing Copper Chloride

mention A. P. Terent'yev. There are 6 figures and 12 references: 6 Soviet, 2 US. 2 German, 1 Czechoslovakian, and 1 Indian:

ASSOCIATION: Chernovitskiy gosudarstvennyy universitet
(Chernovtsy State University)

SUBMITTED: June 4, 1959

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SHOSTAKOVSKIY, M.F.; KUL'BOVSKAYA, N.K.; GRACHEVA, Ye.P.; LABA, V.I.; YAKUSHINA, L.M.

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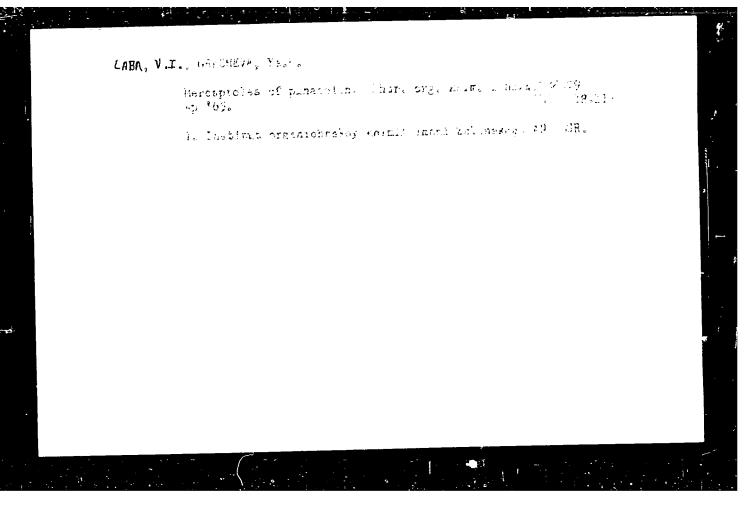
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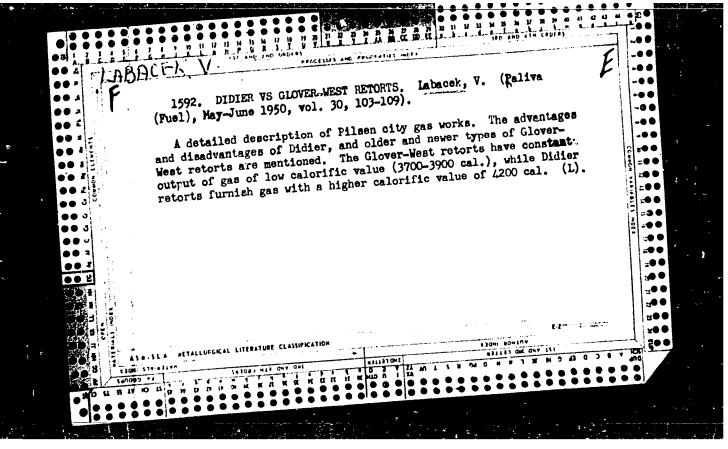
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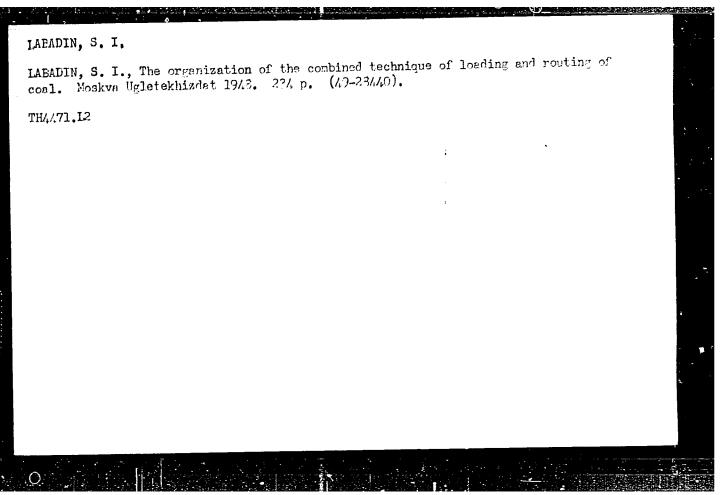
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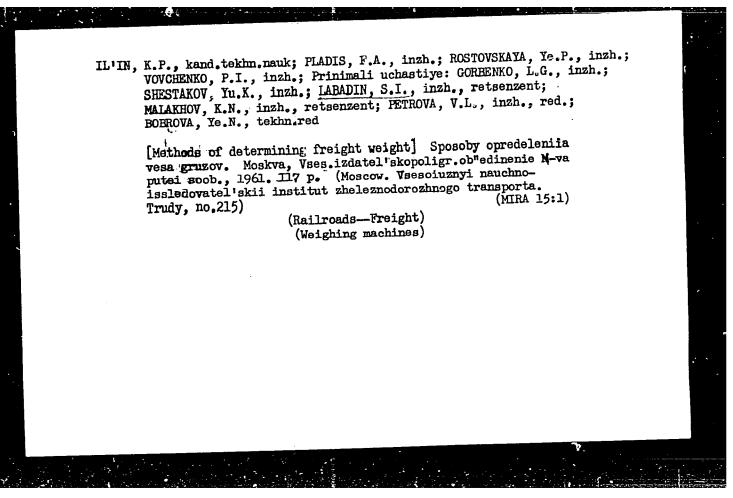


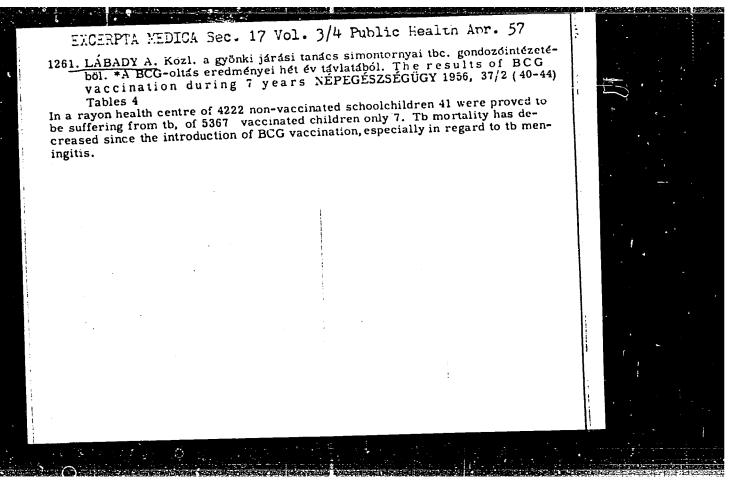
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develop, of allergy, time interval & mechanism (Hun,)

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cn blood picture & hemagglut. (Hun))

(BLOOD

picture, eff. of BCG vacc. (Hun))

(HEMAGGUITIMATION

eff. of BCG vacc. (Hun))